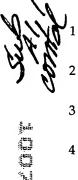
## **CLAIMS**

## What is claimed is:

- 1 1. A system comprising:
- 2 a battery;
- a super capacitor (SC) coupled in parallel to the battery;
- a computer system coupled to the battery and the SC; and
- a current limiter, coupled to the battery, the SC and the computer system,
- 6 that prevents excess current from flowing from the battery to the SC.
  - 2. The system of claim 1 wherein the current limiter prevents excess current from flowing from the SC to the battery.
- 1 3. The system of daim 1 wherein SC prevents transients from the computer
- 2 system from affecting the battery voltage.
- 1 4. The system of claim 3 wherein SC has a capacitance of 20 farad and a
- 2 resistance of 5 m.
- 1 5. The system of claim 1 wherein the computer system comprises:
- 2 a power delivery subsection; and
- a plurality of hardware components coupled to the power delivery
- 4 subsection.

- 1 6. The system of claim 5 wherein the power delivery subsection comprises:
- 2 a system voltage regulator;
- a chipset voltage regulator; and
- a central processing unit (CPU) voltage regulator.
- 7. The system of claim 2 wherein the current limiter comprises:
- a first transistor coupled to the battery;
- a second transistor coupled to the first transistor; and
  - a resistor coupled to the second transistor, the SC and the computer
- 5 system.
- 1 8. The system of claim wherein the current limiter further comprises:
- a first comparator with inputs coupled across the resistor and an output
- 3 coupled to the gate of the sedond transistor; and
- a second comparator with inputs coupled across the resistor and an
- 5 output coupled to the gate of the first transistor.
- 1 9. The system of claim 8 wherein the first comparator deactivates the second
- 2 transistor if the voltage across the resistor is greater than a first predetermined
- 3 threshold.
- 1 10. The system of claim 9 wherein the second comparator deactivates the first

- transistor if the voltage across the resistor is greater than a second predetermined
- 3 threshold.
- 1 11. A system comprising:
- 2 a battery;
- a super-capacitor (SC) coupled in parallel to the battery;
- a power delivery system coupled to the battery and the SC; and
- a current limiter, coupled to the battery, the SC and the power delivery system, that prevents excess current from flowing from the battery to the SC.
- 1 12. The system of claim 11 wherein the current limiter prevents excess current
- 2 from flowing from the SC to the battery.
- 1 13. The system of claim 11 wherein SC prevents transients from the computer
- 2 system from affecting the battery voltage.
- 1 14. The system of claim 11 wherein the power delivery system comprises:
- 2 a first voltage regulator; and
- 3 a second voltage regulator.
- 1 15. A current limiter comprising:
- a first transistor coupled to a battery;
- a second transistor coupled to the first transistor; and



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- a resistor coupled to the second transistor, and a super-capacitor (SC);
- 5 wherein the current limiter prevents excess current from flowing from the
- 6 battery to the SC.
  - 16. The current limiter of claim 15 further comprising:
  - a first comparator with inputs coupled across the resistor and an output
- coupled to the gate of the second transistor; and
- a second comparator with inputs coupled across the resistor and an
- 5 output coupled to the gate of the first transistor.
- 1 17. The current limiter of claim 16 wherein the first comparator deactivates
- 2 the second transistor if the voltage across the resistor is greater than a first
- 3 predetermined threshold.
- 1 18. The current limiter of claim 17 wherein the second comparator deactivates
- 2 the first transistor if the voltage across the resistor is greater than a second
- 3 predetermined threshold.